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Attorney Docket No. 176746-2

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11/20/00

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE  
Patent Examining Operations**

BOX PATENT APPLICATION  
Assistant Commissioner for Patents  
Washington, D.C. 20231

**Application Transmittal Letter**

Dear Sir:

Transmitted herewith for filing is the patent application of Bassem Demian entitled:

**BUNION TREATING DEVICE**

Enclosed with the application are:

1. Specification (11 sheets);
2. Claims (4 sheets);
3. Abstract (1sheet);
4. Drawings (informal; 4 sheets);
5. Executed Declaration and Power of Attorney of Bassem M. Demian;
6. Information Disclosure Statement and Form PTO-1449 with cited references;
7. Our check (No. 3624 )in the amount of \$ 373.00;
8. Applicant is a small entity;
9. Self-addressed, postage paid, return receipt postcard.

The fee has been calculated as follows:

	Number of Claims Filed	Extra Claims	Rate	Fee
Basic Fee			\$355.00	\$355.00
Total Claims	22 - 20	2	x \$9.00 =	18.00
Independent Claims	3 - 3	0	x \$39.00 =	-0-
<b>TOTAL</b>				<b>\$373.00</b>

The Commissioner is authorized to charge payment of any additional filing fees required under 37 CFR 1.16 associated with this communication or credit any overpayment to Deposit Account No. 03-0678.

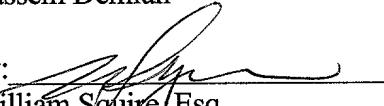
A duplicate copy of this paper is enclosed.

<b>EXPRESS MAIL CERTIFICATE</b>	
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Deposit Date: November 20, 2000	
<p>I hereby certify that this paper and the attachments hereto are being deposited today with the U.S. Postal Service "Express Mail Post Office To Addressee" service under 37 CFR 1.10 on the date indicated above addressed to:</p> <p>Box Patent Application Assistant Commissioner for Patents Washington, DC 20231</p>	
William Squire	November 20, 2000 Date

#86955

Respectfully submitted,  
Bassem Demian

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## BUNION TREATING DEVICE

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This invention relates to podiatric devices, and more particularly, to devices for the correction of bunion conditions in the foot.

US Pat. No. 5,665,060 discloses a bunion treatment apparatus and method for minimizing the forces applied to a bunion and includes a planar main portion and a planar 15 built-up portion constructed of flexible padding material. Strain relief cutouts are provided as well as a toe loop to prevent tearing of the main portion. This apparatus is provided merely to alleviate the discomfort of the condition rather than eliminating the condition.

US Pat. No. 2,827,049 provides a bunion pad and suffers from a similar deficiency.

US Pat. No. 4,729,369 discloses a toe splint and bunion correction device which 20 attempts to correct the condition with a splint device which straightens the toe including a

splint member and a Velcro fastener for securing the splint member to the foot. The splint member is plastic and is molded to accommodate the foot.

In US Pat. No. 4,940,046 a pliable protector cushion pad device is disclosed for the big toe or hallux.

5 US Pat. No. 4,632,103 shows a bandage to reduce bunion pain.

All of the above patents either try to minimize the pain of the bunion or use mechanical devices to correct the condition.

Isoelectronic Rehabilitation Program - Advanced Clinical Applications-Podiatric  
Electrotherapy Applications by Joe Kleinkort, 1989, 1992, is a manual that suggests  
10 electrotherapy applications for relaxation of muscle spasm, prevention or retardation of  
disuse atrophy, increasing local blood circulation, muscle reeducation, immediate  
postsurgical stimulation of calf muscles to prevent venous thrombosis and maintaining or  
increasing the range of motion. This manual discloses placement of electrodes to alleviate  
pain in various conditions in the ankle, feet and knee, and stimulation of muscles in cases of  
15 immobilization,

An article entitled Investigations on the origin of Hallux Valgus by Electromyographic  
Analysis by Takebe K. Shimazaki \_1 Kobe J Medical Science 1981 Aug.: 27(4):139-58  
discloses electromyographic analysis on the physiopathology of the Hallus Valgus and  
toes/physiopathology.

20 Stephen Guffey discloses, in a publication dated 1996,muscle reeducation employing

electrical stimulation including frequencies, pulse duration, polarity, duty cycle, ramp, intensity, treatment time, how often, and electrode placement.

Electrode stimulation and muscle reeducation have generally been related to pain reduction. None of the above articles, however, relate to the problem of bunions and how to 5 treat and correct the condition.

The present inventor recognizes that mechanical correction of the bunion condition is not satisfactory and a need is recognized for a more sophisticated device to correct the bunion condition. The pain reduction and muscle reeducation articles using electrotherapy have dealt primarily with leg and back problems or foot/ankle problems not associated with 10 bunions. Present solutions for bunions is typically related to mechanical devices as disclosed in the aforementioned patents which approach correcting the problem with brute force mechanical splints and padding.

In contrast to the mechanical devices of the prior art to correction of bunion conditions in the foot, a method of correcting a bunion condition in a foot according to the 15 present invention comprises the step of applying an electrical signal to the abductor hallucis muscle to strengthen the muscle to counter balance the strength of the adductor hallucis muscle.

In one aspect, the method includes means for applying repetitive cycles of electrical pulses to the abductor muscle.

20 In a further aspect, the pulses are modified square waves at a pulse repetition rate of

2Hz to 150 Hz, a pulse width of about 60:s to 250:s.

The method in a further aspect includes cyclically increasing the pulse width.

In a further aspect, the method includes wrapping the foot and big toe of the foot with a corresponding strap, attaching at least one electrode to the strap with the electrode abutting 5 the foot and then applying the electrical signal to the electrode.

The method in a further aspect further includes optimizing the signal to maximize said correction by adjusting the signal parameters until an optimum signal is generated.

A bunion correction device according to the present invention comprises means for attaching at least one electrode to the foot for applying an electrical signal to the abductor hallucis 10 muscle in the foot for strengthening the muscle to counter balance the strength of the foot adductor hallucis muscle and signal generator means for generating the electrical signal and applying the generated signal to the means for attaching.

In a still further aspect, the signal comprises a plurality of pulses and is settable in the range of 0-80 mA peak with either a positive or negative pulse into a 500 ohm load.

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#### IN THE DRAWING

FIGURE 1 is a perspective view of a foot exhibiting a bunion condition;

FIGURE 2 is a top plan view of the anatomy of a foot showing the abductor hallucis muscle in the foot;

FIGURE 3 is a top plan view of the anatomy of a foot showing the abductor hallucis 20 and adductor muscles (cut away) in the foot which control the large toe;

FIGURES 4 and 5 are respective similar side views of a foot which show generally the placement of electrodes for the correction of the bunion condition and a device according to an embodiment of the present invention employing electrodes for the correction of the bunion condition with electrical signals

5 FIGURE 6 is a plan view of the foot and device of Fig. 5;

FIGURE 7 is a plan view of the device of Figs. 5 and 6 prior to attachment to a foot with representative electrodes attached for electrically correcting the bunion condition;

FIGURE 8 is a front elevation view of an electrical signal generator for use with the device of Figs. 5, 6 and 7;

10 FIGURE 9 is a top plan view of the generator of Fig. 8;

FIGURES 10a and 10b are waveform graphs of representative signals produced by the generator of Fig. 8;

FIGURE 11 is an isometric view of a portion of the top of the generator of Fig. 9 showing the attachment of a the signal output cable of the generator to a representative output 15 connector, there being two output connectors in the generator; and

FIGURE 12 is a top plan view of a representative electrode for applying a bunion correction signal to the foot; and

FIGURE 12a is an isometric view of the electrode of Fig. 12 without the electrical terminal in place.

20 In Fig. 1, foot 10 big toe 12 has a bunion 14. In Fig. 2 one muscle of the foot for

controlling the big toe is the abductor hallucis muscle 16. In Fig 3, a second muscle of the big toe is the adductor hallucis muscle 18 (shown cut away but in practice has an extent corresponding generally to the extent of the abductor hallucis muscle in Fig. 2. The present invention is a result of the recognition that the bunion 14 (shown in phantom in Fig. 3) is 5 caused by the adductor hallucis muscle becoming stronger than the abductor hallucis muscle.

Normally, in a healthy foot both muscles are of equal strength and counter balance the forces of each other in the normal quiescent state of the big toe.

However, over time due to mis-fitting shoes or due to genetic or disease problems, the strengths of the two muscles become different. The adductor muscle eventually overpowers 10 the abductor muscle and pulls the big toe over to one side toward the other toes as shown in phantom in Fig. 3 by toe 12'. The abductor muscle 3 extends for the length of the foot as shown in Fig. 1 and is adjacent to both the side and top side surfaces of the foot.

It is known generally that muscles can be stimulated by electrical signals and this knowledge has been used to relieve pain due to muscle conditions, typically in the back, 15 foot/ankle or leg. See the articles in the introductory portion. However, the present invention is a recognition that the bunion is due to a imbalance in the abductor and adductor hallucis muscles and that the abductor muscle can be strengthened by the application of electrical pulses thereto. The prior art has typically approached the correction of bunions with brute force by the use of mechanical devices and splints. The use of electrical signals to strengthen 20 the abductor hallucis muscle corrects the problem by reducing the one sided impact

imbalance of the stronger adductor hallucis muscle in persons exhibiting bunions.

In Fig. 4, foot 10 is shown with a region 20 in which the abductor hallucis muscle is located. One or more electrodes are placed in this region and an electrical signal applied to the electrodes to stimulate and repetitively relax and tighten the abductor hallucis 5 muscle. The exact location can be determined empirically for each patient in order to ascertain the most optimum portion of the abductor hallucis muscle that is responsive to the electrical signal(s) for strengthening the muscle. This might take some trial and error until the optimum repositioning of the big toe 12 is observed. It is recommended that the major site of the abductor hallucis muscle be identified and the electrodes applied to this site. This 10 site is believed to occur in the region 24, Fig. 2, in regard to the abductor hallucis muscle, which might vary of course from individual to individual.

In Fig. 7, device 26 comprises a strap 28 formed of felt, foam or similar soft cushioning materials the composition of which is not important to the present invention other than it be electrical insulating material. Strap 28 comprises two substraps 30 and 32. 15 Substrap 30 comprises a generally rectangular member with two opposing legs 34 and 36 of about the same width and attached one piece and integral with connecting member 38. Legs 34 and 36 are of like width from left to right in the figure. The end 40 of leg 36 has a strip 42 of Velcro hook members, a trademark for a hook and loop fastener well known and commercially available. The leg 34 and leg 36 overlap when wrapped about the foot as 20 shown in Figs. 5 and 6. The leg 36 strip 42 hooks engage the leg 34 which comprises loop

type of fabric, or in the alternative, may include a strip (not shown) of Velcro loop material mating with the hook material strip 42. The hook and loop material releasably attach the overlapping two legs 34 and 36 of the substrap 30 as shown.

Substrap 32 comprises two legs 44 and 46 and Velcro hook strip 48. Legs 44 and 46 5 attach similarly as legs 34 and 36 about the big toe 12. Substrap 32 is connected to substrap 30 and integral one piece therewith by the connecting member 38. In Fig. 7, two electrodes 50 and 52 in this embodiment are attached to substrap 30. The electrodes 50 and 52 are identical and a description of electrode 50 is representative. In Figs. 12 and 12a electrode 50 comprises a electrically conductive pad 54 which may be conductive elastomeric or plastic 10 material. The pad 54 has a hollow somewhat tubular terminal connector 56 molded integral therewith. The pad 54 is square but may be other shapes. This electrode 50 is commercially available from the Lumiscope Company of Edison, New Jersey as a kit with other components of the electrical signal generator to be described below as model SW1000 15 Transcutaneous Electrical Nerve Stimulator.

15 An electrical terminal 58 which is an elongated metal wire as typical in electrical connections and terminals, fits inside of the connector 56 to apply an electrical pulse signal to the pad 54. The pad 54 on a side opposite the connector 56 may receive an electrically conductive gel as known in this art for providing good electrical coupling to a local applied portion of the skin of the foot 10. An electrically conductive conductor 60 is connected to 20 terminal 58 at one conductor end and to plug connector 62, Fig. 11, at the other conductor

end.

In Fig. 8, electrical signal generator apparatus 64 has a housing 66 which receives a battery 68 (a conventional 9 volt transistor battery) with its electrical connection to the apparatus 64 and the housing cover not shown. The apparatus has a circuit which is 5 commercially available (not shown and within the housing) and is available from the Lumiscope Company. Two control knobs 70 and 72 control the respective pulse width and frequency of the alternating current signal produced by the apparatus 64. A mode selector switch 74 selects burst (B), normal (N) and modulation (M) modes of the generated pulses. A power indicator light 76 is included. In Fig. 9, channel output receptacles 78 and 80 10 provide two parallel identical output signals generated by the apparatus 64. Knob 82 controls channel on/off state for receptacle 80 and the output signal amplitude for this receptacle. Knob 84 controls channel on/off state for receptacle 78 and the output signal amplitude for this receptacle.

The circuit of apparatus 64 provides dual identical channels which are electrically 15 isolated. The circuit is a pulse generator for generating approximate adjustable square waves as shown in Figs. 10a and 10b which are self explanatory. The amplitude of each channel is independently controlled, but otherwise the parameters of the signals of the two channels is the same as controlled by knobs 70 and 72 and mode select switch 74. The pulse amplitude is adjustable by knobs 82 and 84 in a range of 0-80 mA peak either with a positive pulse or 20 negative pulse into a 500 ohm load for each channel. The pulse frequency is adjustable in the

range of 2Hz to 150Hz. The pulse width is adjustable in the range of about 60:s to 250:s.

The apparatus has a modulation mode. The modulation mode is one where the pulse width is automatically varied in a cyclic pattern over an interval of nominally 4.0 seconds. The pulse width decreases linearly over a period of 1.0 seconds from the control setting value 5 to a value which is decreased 40% maximum. The narrow pulse width will continue for 1.5 seconds maximum, then increase linearly over a 1.5 second period to its original value. The cycle is then repeated.

The apparatus also has a burst mode in which bursts of seven pulses are provided at a maximum pulse rate. The bursts occur twice a second.

10 The wave form as shown in Figs. 10a and 10b are modified square waves with zero net direct current (DC) component. All of the adjustable parameters are set at the midpoint of the specified range. The apparatus has a voltage of 0-110 volts maximum either positive or negative pulse (open circuit). There is a maximum charge per pulse of 16 micro coulombs. The values may vary in a range of +/- 20%. This apparatus is normally commercially 15 available for treatment only of pain, chronic or adjunct to management of post surgical and post traumatic acute pain problems. However, as disclosed herein it may also be used to correct bunion conditions. The apparatus is available with the restriction that transcutaneous electrical nerve stimulation is of no known curative value other than pain relief.

The connector 62 is mated in receptacle 78, Fig. 11 to connect the electrode 50 to the 20 output signal. The electrodes 50 and 52, Fig. 7, are bonded by a Velcro fastener to the strap

28, Fig. 7, leg 36. The location of the electrodes is determined for a given patient and determined on a case by case basis. The signal parameters are varied until optimum correction of the bunion is noted. This requires setting of the pulse parameters by the user during the initial set up. The user will note various nerve reactions to the electrical signals 5 and by observation can determine optimum electrical impulses. The various parameters of the pulses are set to optimize the visual and physical results. While the particular electrical signal parameters are given herein, they are given by way of example, and not limitation. Other electrical signals of pulses of different shapes, currents, amplitudes and wave forms may also be used according to a given condition being corrected. Also, the shape and 10 material of the strap is by way of example and not limitation. Other devices for applying the electrical signals may be utilized the device described herein being given by example only. The important aspect is that the abductor muscle is strengthened sufficiently so that the forces on the big toe muscles balance. The big toe thus returns to its normal position in response to the treatment described herein.

15 It will occur to one of ordinary skill that modifications may be made to the disclosed embodiments without departing from the scope of the invention as defined in the appended claims. The disclosed embodiments are given by way of illustration and not limitation. For example, while the foot muscles for the big toe involving a bunion condition are corrected herein, other muscles involving other limb distortions due to muscle imbalance may also be 20 corrected by applying electrical signals to strengthen certain of such other muscles.

What is claimed is:

1. A bunion correction device comprising:

means for attaching at least one electrode to the foot for applying an electrical signal to the abductor hallucis muscle in the foot for strengthening the muscle to counter balance the  
5 strength of the foot adductor hallucis muscle; and

signal generator means for generating the electrical signal and applying the generated signal to the at least one electrode.

2. The device of claim 1 wherein the means for attaching comprises strap means for  
10 encircling the foot and means for securing the at least one electrode to the strap means for abutting the foot when the strap means is attached to the foot.

3. The device of claim 1 wherein the generating means includes means for applying a generated signal to two electrodes.

15

4. The device of claim 1 wherein the signal generator includes means for generating a plurality of pulses and includes means for setting the pulses in the range of 0-80 mA peak with either a positive or negative pulse into a 500 ohm load.

20 5. The device of claim 4 wherein the means for generating includes means for generating the

pulse at a frequency in the range of about 2Hz to 150Hz.

6. The device of claim 4 wherein the means for generating includes means for generating the pulse with a width in the range of about 60:s to 250:s.

5 7. The device of claim 4 wherein the means for generating includes means for generating bursts of said pulses of about 7 pulses at a maximum pulse rate.

8. The device of claim 4 wherein the means for generating includes means for generating bursts of pulses twice a second.

10

9. The device of claim 2 wherein the strap means comprises a first strap for encircling the big toe and a second strap for encircling the foot.

10. The device of claim 2 including two spaced electrodes arranged on the strap means for 15 overlying the abductor hallucis muscle of the foot in two spaced locations.

11. The device of claim 3 wherein the means for generating includes means for independently generating the two signals and applying a different signal to each electrode.

20 12. A method of correcting a bunion condition in a foot comprising the step of applying an

electrical signal to the abductor hallucis muscle to strengthen the abductor hallucis muscle and counter balance the strength of the adductor hallucis muscle to correct for an imbalance between the two muscles.

5 13. The method of claim 12 including the step of applying repetitive cycles of electrical pulses to the abductor muscle.

14. The method of claim 13 including the step of generating pulses that are modified square waves at a pulse repetition rate of 2Hz to 150 Hz and at a pulse width of about 60:s to 250:s.

10

15. The method of claim 14 including the step of cyclically increasing the pulse width.

16. The method of claim 15 including the step of varying the pulse width in repetitive 4 second cycles.

15

17. The method of claim 12 including the step of wrapping the foot and big toe of the foot with a corresponding strap, attaching at least one electrode to the strap with the electrode abutting the foot and then applying the electrical signal to the electrode.

20 18. The method of claim 12 including optimizing the signal to maximize said correction by

adjusting the signal parameters until an optimum signal is generated.

19. The method of claim 12 including periodically applying the signal to the foot.

5 20. The method of claim 19 including applying the signal in the range of 15-30 minutes daily.

21. The method of claim 12 including cyclically tightening and relaxing the abductor hallucis muscle with the electrical signal in repetitive periods.

10

22. A method of correcting an imbalance condition in a limb of an animal wherein the limb is controlled by at least first and second counteracting muscles wherein the first muscle is stronger than the second muscle causing the limb to be pulled from its normal quiescent position by the first muscle to a distorted position comprising the step of applying an 15 electrical signal to the second muscle to strengthen the second muscle to thereby counter balance the strength of the first muscle to correct the imbalance between the two muscles and cause the limb to assume the normal position.

## ABSTRACT

A pulse generating apparatus has two like output channels that apply generated pulse  
10 signals of selected characteristics to two electrodes attached to a strap, each electrode  
receiving a different signal. The strap is attached to the foot so that the electrodes are  
positioned to stimulate with an electrical signal the abductor hallucis muscle of the foot to  
correct an imbalance due to overpowering by the adductor hallucis muscle. The signal  
strengthens the abductor hallucis muscle so that eventually it regains strength sufficient to  
15 counter balance the imbalance effect of the stronger adductor hallucis muscle and alleviate  
the bunion condition. The electrical signal generator generates signals that are pulses that are  
adjustable in frequency, modulation, pulse width and amplitude with modified square waves.

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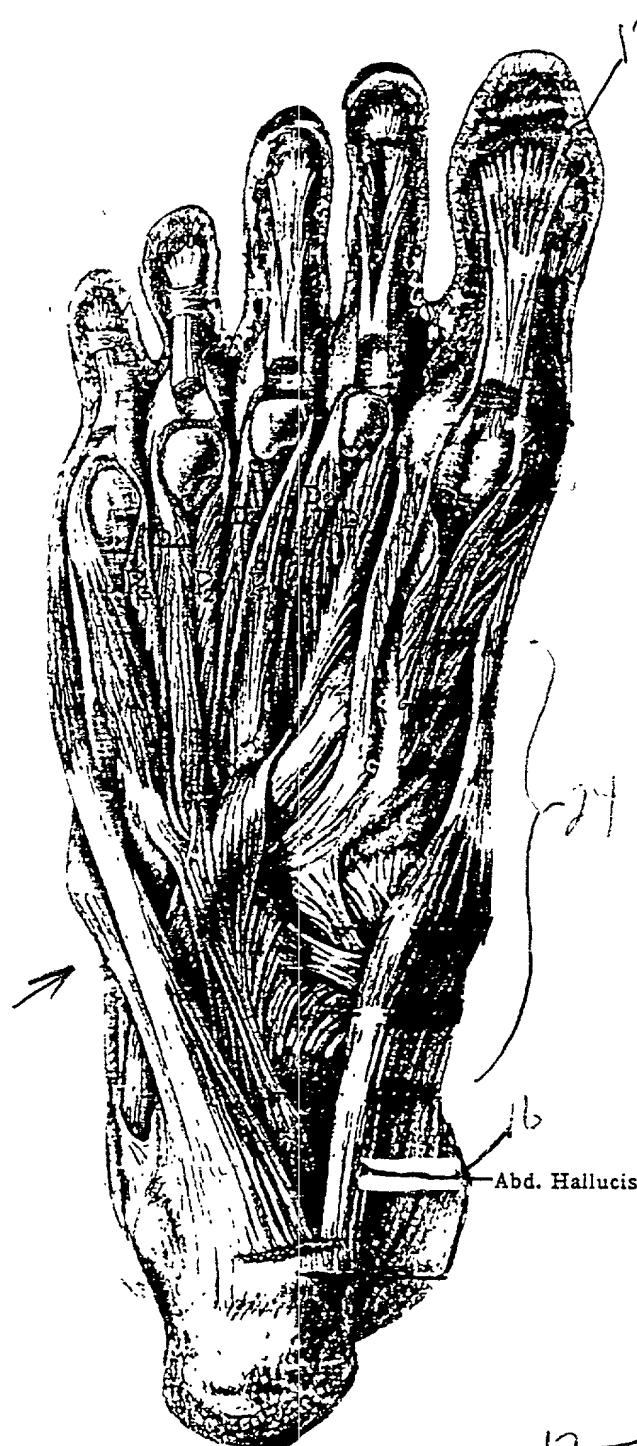


FIG. 2

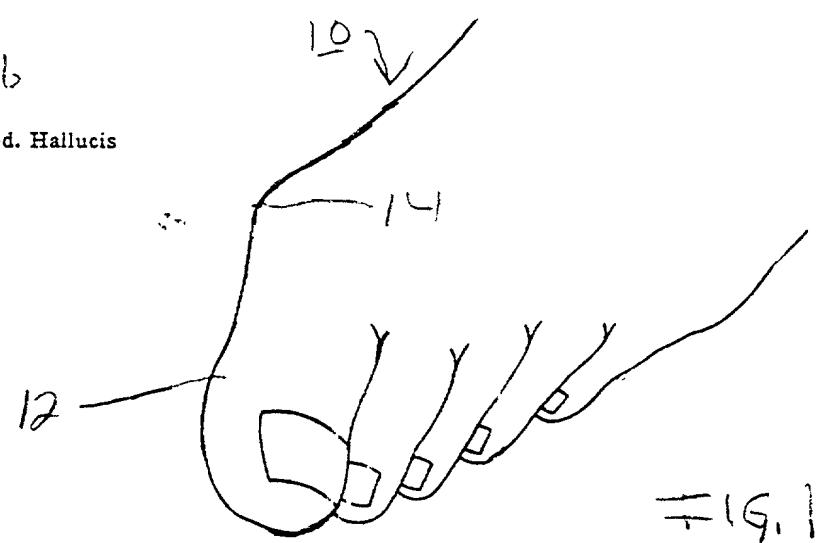


FIG. 1

09215567 440000

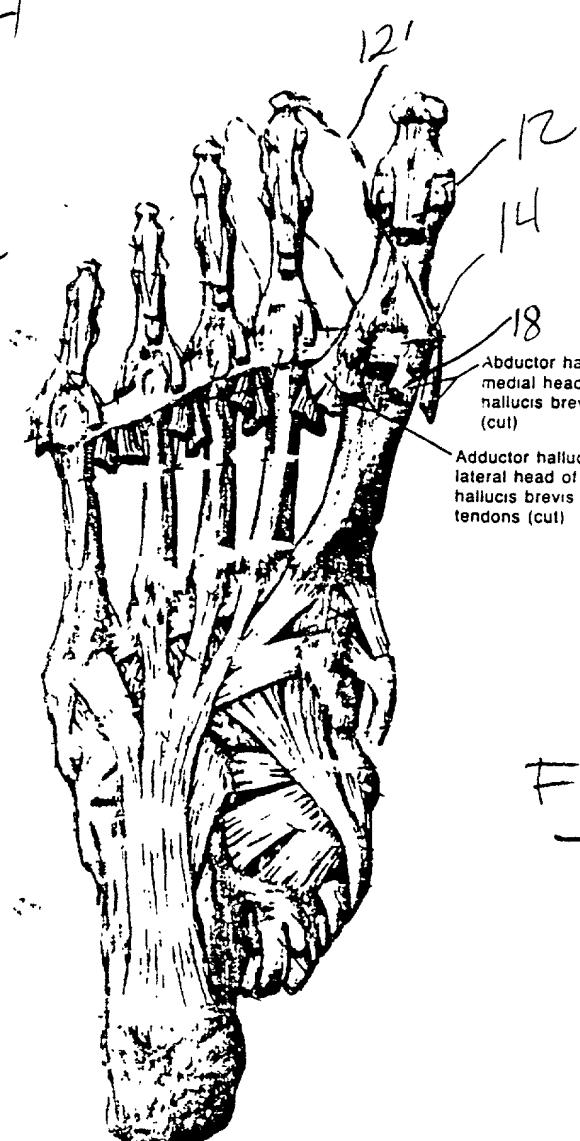


FIG. 3

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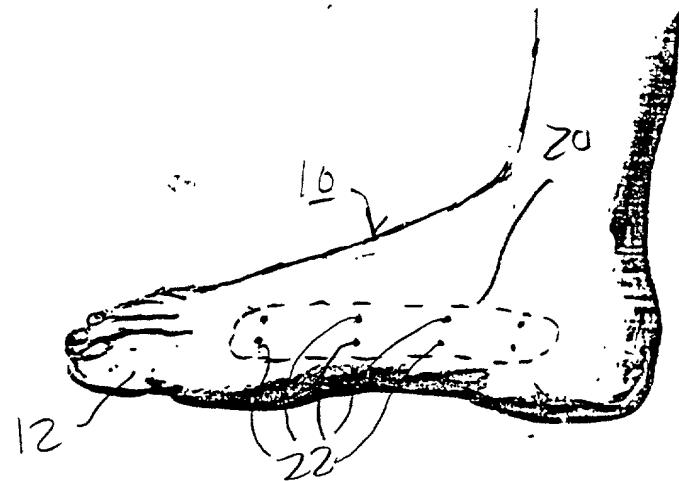


FIG. 4

FIG. 5

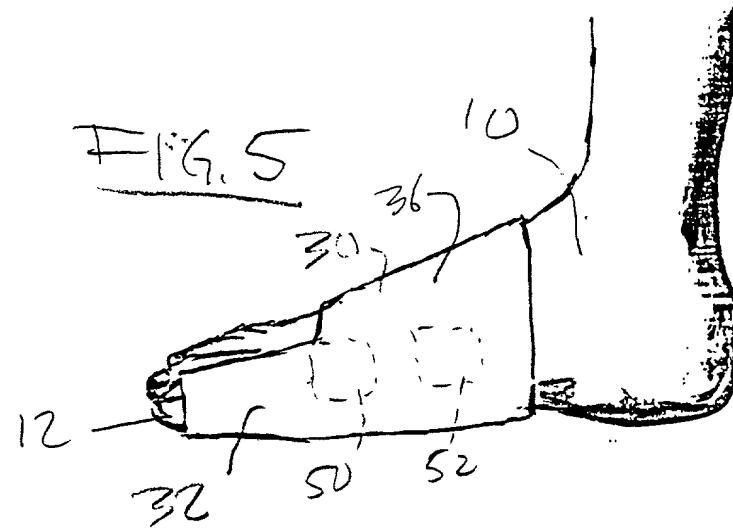
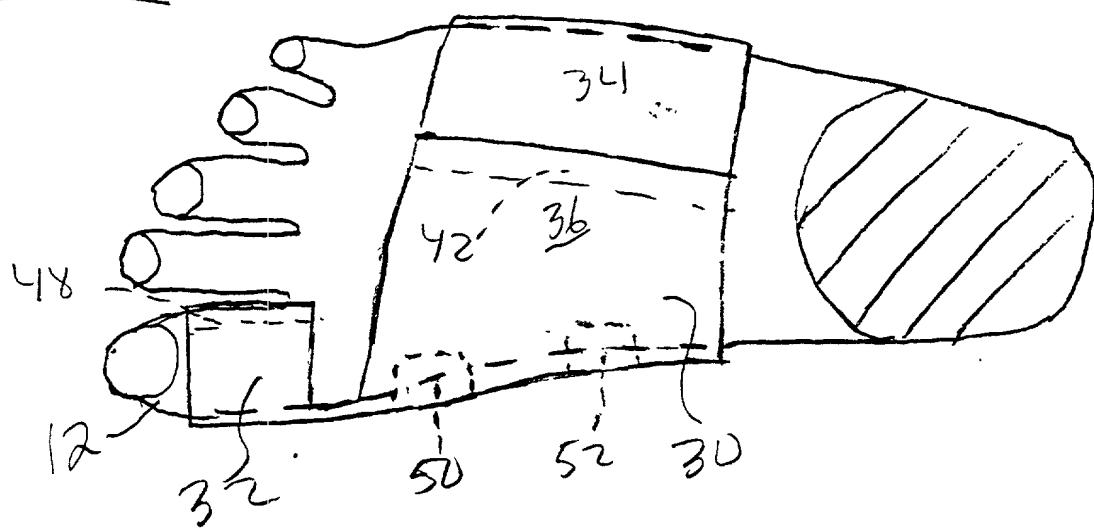
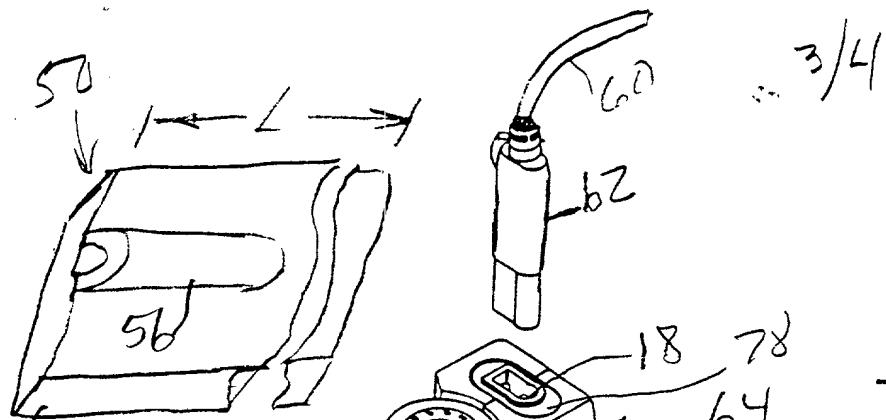


FIG. 6

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54 FIG.12a

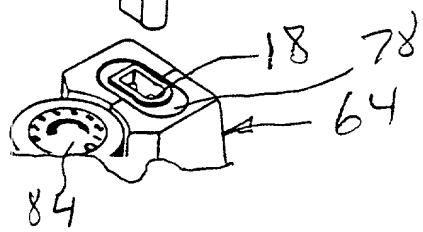
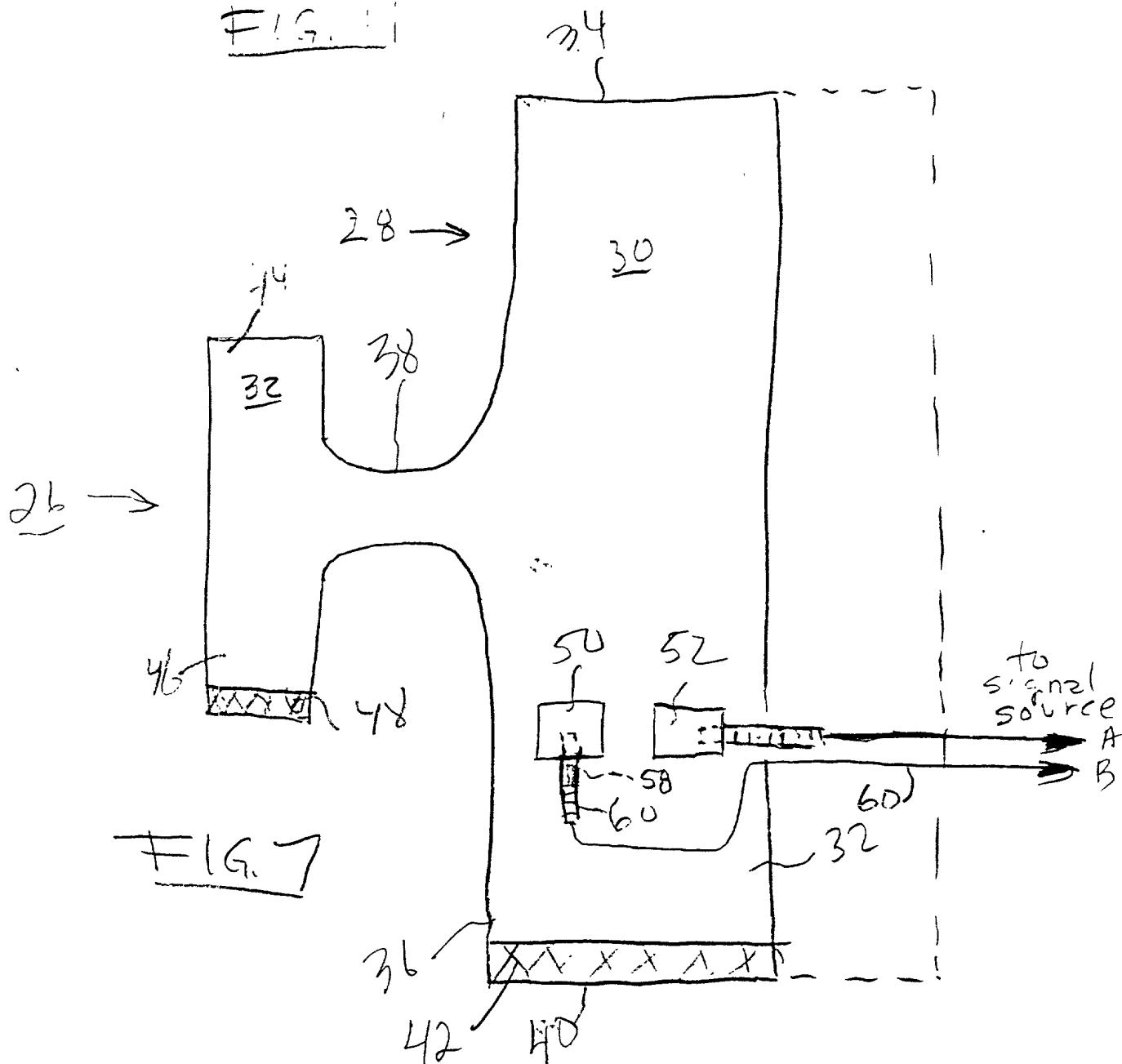
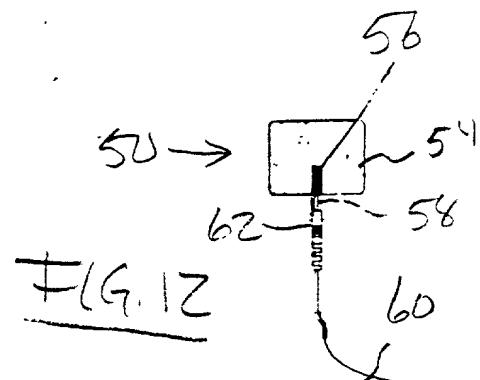
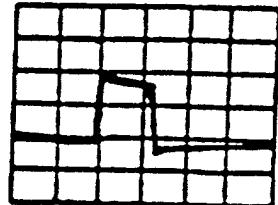
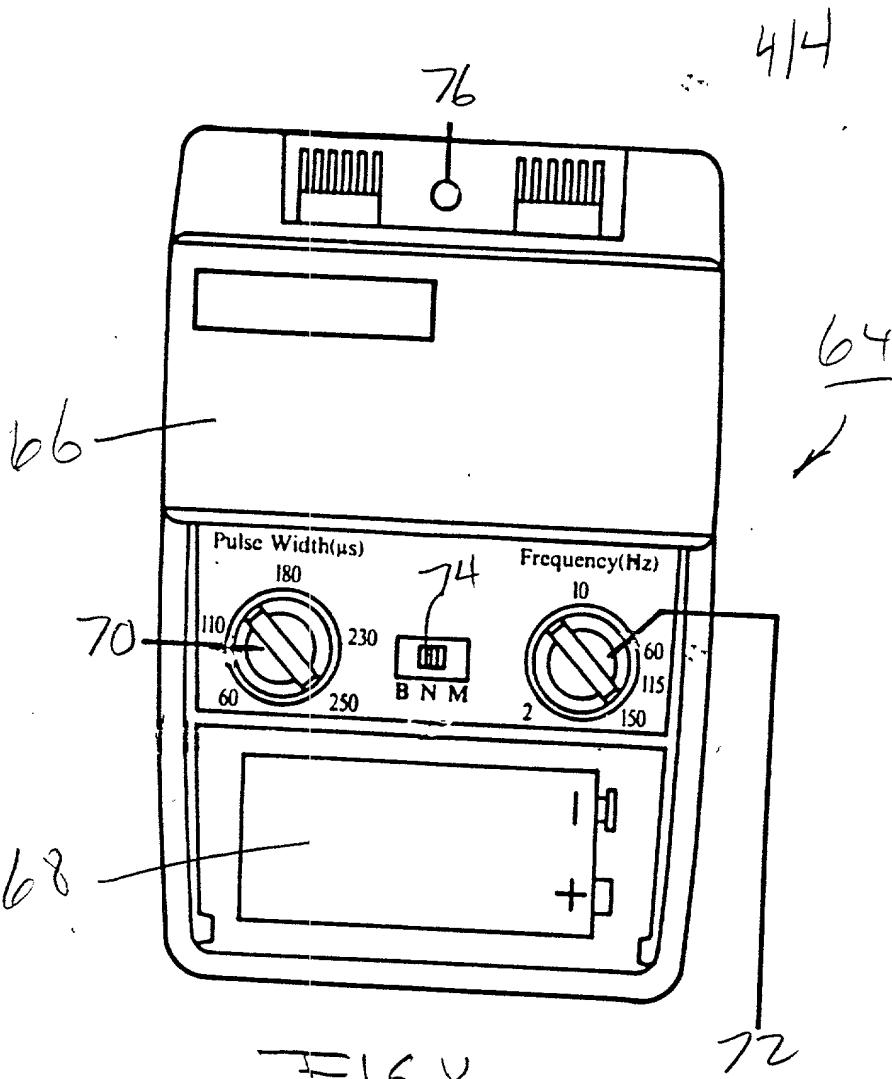


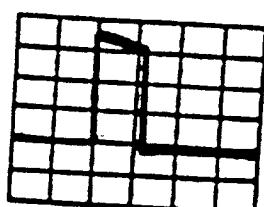
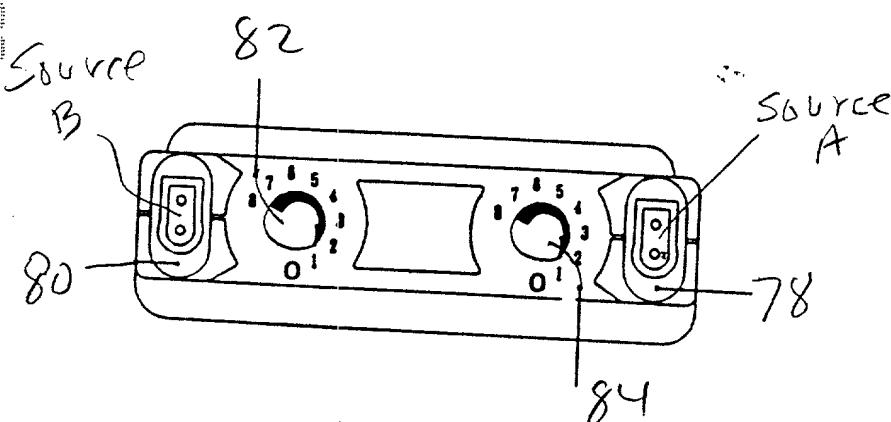
FIG. 1





LOAD MODE : 1M OHM  
(OPEN CIRCUIT)  
VER. MODE : CH1  
VOLT./DIV : 50.0V  
TIME./DIV : 0.1MS

FIG. 10a



LOAD MODE : 500.00 OHM  
VER. MODE : CH1  
TIME/DIV : 0.1MS  
VOLT/DIV : 5.0 V

FIG. 9

**DECLARATION AND POWER OF ATTORNEY**

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

BUNION TREATING DEVICE

the specification of which [ X ] is attached hereto or [ ] was filed on \_\_\_\_\_ as Application Serial No. \_\_\_\_\_ and was amended on \_\_\_\_\_ (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the patentability of this application in accordance with Title 37, Code of Federal Regulations, Section 1.56(a).

I hereby claim foreign priority benefits under Title 35, United States Code, Section 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed. Prior Foreign Application(s):

None	Priority Claimed	
(Number)	Yes	No
_____	<input type="checkbox"/>	<input type="checkbox"/>
_____	<input type="checkbox"/>	<input type="checkbox"/>

I hereby claim the benefit under Title 35, United States Code, Section(s) 119 and/or 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, Section 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, Section 1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

(Application Serial No.)	(Filing Date)	(Status – pending provisional, patented, pending, abandoned)
_____	_____	_____
(Application Serial No.)	(Filing Date)	(Status – pending provisional, patented, pending, abandoned)
_____	_____	_____

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: John N. Bain (Reg. No. 18,651); John G. Gilfillan, III (Reg. No. 22,746); Elliot M. Olstein (Reg. No. 24,025); Raymond J. Lillie (Reg. No. 31,778); William Squire (Reg. No. 25,378); Alan J. Grant (Reg. No. 33,389); Francis C. Hand (Reg. No. 22,280); and Glennon G. Troublefield (Reg. No. 39,050). Address correspondence and telephone calls to William Squire, Esq., c/o Carella, Byrne, Bain, Gilfillan, Cecchi, Stewart & Olstein, 6 Becker Farm Road, Roseland, NJ 07068 - (973) 994-1700.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole or first inventor: Bassem M. Demian, D.P.M.

Inventor's signature: Bassem Demian Date: 11/15/00

Residence: 430 Shore Line Place, Brick, New Jersey 08723

Citizenship: USA

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